(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 11 April 2002 (11.04.2002)

PCT

(10) International Publication Number WO 02/28315 A3

(51) International Patent Classification?: A61B 17/04

A61F 2/00.

(21) International Application Number: PCT/US01/31360

(22) International Filing Date: 5 October 2001 (05.10.2001)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

(US).

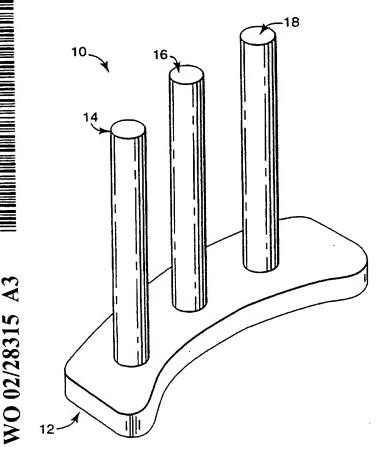
60/238.771 09/968.239 6 October 2000 (06.10.2000) US 1 October 2001 (01.10.2001) US

(71) Applicant: AMERICAN MEDICAL SYSTEMS, INC. [US/US]: 10700 Bren Road West, Minnetonka, MN 55343

- (72) Inventors: LUND, Robert, E.: 10700 Bren Road West. Minnetonka, MN 55343 (US). NEISZ, Johann, J.: 10700 Bren Road West. Minnetonka, MN 55343 (US). WATSCHKE, Brian, P.: 10700 Bren Road West. Minnetonka, MN 55343 (US). WESTRUM, Jr., John, W: 10700 Bren Road West. Minnetonka, MN 55343 (US).
- (74) Agent: HOHENSHELL, Jeffrey, J.: 10700 Bren Road West, Minnetonka, MN 55343 (US).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.

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(54) Title: SLING ADJUSTMENT AND TENSIONING ACCESSORY



(57) Abstract: An anatomical support adjustment and tension control article for use in applying a tensioning force to anatomical support material disposed therein. The tension control article preferably comprises a base member disposing a plurality of tensioning members extending therefrom. The tensioning members create a tortuous pathway thereby providing a tensioning force to anatomical support material positioned therebetween. Additionally, at least one of the plurality of tensioning members may be removed from the device to alter the supportive tension applied by the device. The anatomical support material may be disposed between the plurality of tensioning members in a number of ways, thereby resulting in varying amounts of supportive tension being applied by the device.



(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 20 June 2002

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61F2/00 A61B17/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 99 52450 A (AXYA MEDICAL INC) 21 October 1999 (1999-10-21) page 3, line 16 - line 23; figures	1,33
Α		2,5,11, 23
X	US 6 045 572 A (GRIFFIN WAYNE P ET AL) 4 April 2000 (2000-04-04) column 10, line 8 -column 11, line 3; figures 14-16	11
Α	11gdi C3 14 10	1
X	US 5 649 940 A (HART RICKEY D ET AL) 22 July 1997 (1997-07-22) the whole document	1,33
:	-/	

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Date of the actual completion of the international search . 23 April 2002	Date of mailing of the international search report 03/05/2002
Name and mailing address of the ISA	Authorized officer
European Patent Office. P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl. Fax: (+31-70) 340-3016	Neumann, E

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INTERNATIONAL SEARCH REPORT

Inte ional Application No PCT/US 01/31360

	ion) DOCUMENTS CONSIDERED TO BE RELEVANT	Delevent to stain 11:
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	EP 0 894 474 A (ISCHINGER THOMAS PROF DR) 3 February 1999 (1999-02-03) paragraph '0008! - paragraph '0012!; figures	1,11
	•	

Form PCT/ISA/210 (continuation of second sheet) (July 1992)

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INTERNATIONAL SEARCH REPORT

Information on patent family members

Inti ional Application No PCT/US 01/31360

	atent document d in search report		Publication date		Patent family member(s)		Publication date	
WO	9952450	Α	21-10-1999	US AU WO	6106545 3493599 9952450	A	22-08-2000 01-11-1999 21-10-1999	
US	6045572	A	04-04-2000	AU EP WO US	1117800 1121058 0022992 6302899	A1 A1	08-05-2000 08-08-2001 27-04-2000 16-10-2001	
US	5649940	Α	22-07-1997	US AU WO	5690655 3683995 9609797	A	25-11-1997 19-04-1996 04-04-1996	
EP	0894474	Α	03-02-1999	EP	0894474	A1	03-02-1999	

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NSDOCID: <WO_____0228315A3_I_>